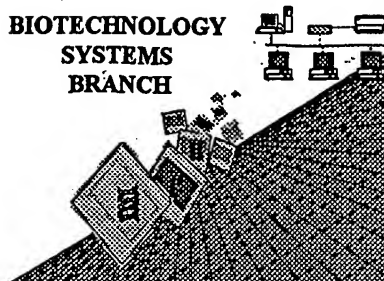




0590
0/03

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/006,252
Source: PIPE
Date Processed by STIC: 12/19/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>, EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two,
Lobby, Room 1B03, Arlington, Virginia 22202

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence,
Arlington, VA 22202



Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 16/006,252

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
 Wrapped Aminos
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
 Numbering
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
 "bug"
- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 (NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 9 ✓ Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
 (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001
TIME: 15:15:34

Input Set : A:\SYN-034DV.ST25.txt
Output Set: N:\CRF3\12192001\J006252.raw

**Does Not Comply
Corrected Diskette Needed**

Error on pp. Error pp 142

```

3 <110> APPLICANT: De Samblanx, Genoveva
4      Broekaert, Willem
5      Rees, Sarah
7 <120> TITLE OF INVENTION: Antifungal Proteins
9 <130> FILE REFERENCE: SYN-034DV
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/006,252
C--> 12 <141> CURRENT FILING DATE: 2001-12-04
14 <150> PRIOR APPLICATION NUMBER: 09/077,951
15 <151> PRIOR FILING DATE: 1998-06-10
17 <150> PRIOR APPLICATION NUMBER: GB 9525474.4
18 <151> PRIOR FILING DATE: 1995-12-13
20 <150> PRIOR APPLICATION NUMBER: PCT/GB96/03065
21 <151> PRIOR FILING DATE: 1996-12-12
23 <160> NUMBER OF SEQ ID NOS: 77
25 <170> SOFTWARE: PatentIn Ver. 2.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 36
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
35 <400> SEQUENCE: 1
36 tatcagtcga cgcattgctat tgataagatt taaagg                      36
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 37
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
46 <400> SEQUENCE: 2
47 aataagcttg gacaagagac agaagttgtg ccaaagg                      37
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 28
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
57 <400> SEQUENCE: 3
58 aagatccct attacaagg aaagtagc                                  28
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 28
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
68 <400> SEQUENCE: 4
69 atgctagct cagaagttgt gccaaagg                                28

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001

TIME: 15:15:34

Input Set : A:\SYN-034DV.ST25.txt

Output Set: N:\CRF3\12192001\J006252.raw

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71 <210> SEQ ID NO: 5
72 <211> LENGTH: 20
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
79 <400> SEQUENCE: 5
80 aggaaacagc tatgaccatg                                     20
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 41
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
90 <400> SEQUENCE: 6
91 ggaatagccg atggagatct aggaaaacag ctatgaccat g           41
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 24
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
101 <400> SEQUENCE: 7
102 ggaatacccg atcgagatct agga                               24
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 51
106 <212> TYPE: PRT
107 <213> ORGANISM: Raphanus sativus
109 <400> SEQUENCE: 8
110 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
111   1           5           10           15
113 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
114           20           25           30
116 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
117           35           40           45
119 Phe Pro Cys
120           50
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 51
125 <212> TYPE: PRT
126 <213> ORGANISM: Raphanus sativus
128 <400> SEQUENCE: 9
129 Gln Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
130   1           5           10           15
132 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
133           20           25           30
135 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
136           35           40           45
138 Phe Pro Cys

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001

TIME: 15:15:34

Input Set : A:\SYN-034DV.ST25.txt

Output Set: N:\CRF3\12192001\J006252.raw

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139      50
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 50
144 <212> TYPE: PRT
145 <213> ORGANISM: Raphanus sativus
147 <400> SEQUENCE: 10
148 Lys Leu Cys Glu Arg Ser Ser Gly Thr Trp Ser Gly Val Cys Gly Asn
149   1          5          10          15
151 Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
152          20          25          30
154 Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
155          35          40          45
157 Pro Cys
158      50
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 51
163 <212> TYPE: PRT
164 <213> ORGANISM: Raphanus sativus
166 <400> SEQUENCE: 11
167 Gln Lys Leu Cys Glu Arg Ser Ser Gly Thr Trp Ser Gly Val Cys Gly
168   1          5          10          15
170 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Gly Ala Arg
171          20          25          30
173 His Gly Ser Cys Asn Tyr Ile Phe Pro Tyr His Arg Cys Ile Cys Tyr
174          35          40          45
176 Phe Pro Cys
177      50
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 27
182 <212> TYPE: PRT
183 <213> ORGANISM: Brassica rapa
185 <400> SEQUENCE: 12
186 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
187   1          5          10          15
189 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn
190          20          25
193 <210> SEQ ID NO: 13
194 <211> LENGTH: 27
195 <212> TYPE: PRT
196 <213> ORGANISM: Brassica rapa
198 <220> FEATURE:
199 <221> NAME/KEY: SITE
200 <222> LOCATION: (11)
201 <223> OTHER INFORMATION: Xaa is a non-standard amino acid; thought to be a
202     post-translational modification of a standard
203     amino acid
205 <400> SEQUENCE: 13
W--> 206 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Xaa Ser Gly Val Cys Gly
207   1          5          10          15

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001

TIME: 15:15:34

Input Set : A:\SYN-034DV.ST25.txt

Output Set: N:\CRF3\12192001\J006252.raw

```

209 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg
210          20          25
213 <210> SEQ ID NO: 14
214 <211> LENGTH: 30
215 <212> TYPE: PRT
216 <213> ORGANISM: Brassica napus
218 <400> SEQUENCE: 14
219 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
220  1          5          10          15
222 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys
223          20          25          30
226 <210> SEQ ID NO: 15
227 <211> LENGTH: 23
228 <212> TYPE: PRT
229 <213> ORGANISM: Brassica napus
231 <400> SEQUENCE: 15
232 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
233  1          5          10          15
235 Asn Asn Asn Ala Cys Lys Asn
236          20
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 25
241 <212> TYPE: PRT
242 <213> ORGANISM: Sinapis alba
244 <400> SEQUENCE: 16
245 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
246  1          5          10          15
248 Asn Asn Asn Ala Cys Lys Asn Gln Cys
249          20          25
252 <210> SEQ ID NO: 17
253 <211> LENGTH: 26
254 <212> TYPE: PRT
255 <213> ORGANISM: Sinapis alba
257 <400> SEQUENCE: 17
258 Gln Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
259  1          5          10          15
261 Asn Asn Asn Ala Cys Arg Asn Gln Cys Ile
262          20          25
265 <210> SEQ ID NO: 18
266 <211> LENGTH: 27
267 <212> TYPE: PRT
268 <213> ORGANISM: Arabidopsis thaliana
270 <400> SEQUENCE: 18
271 Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
272  1          5          10          15
274 Asn Ser Asn Ala Cys Lys Asn Gln Cys Ile Asn
275          20          25
278 <210> SEQ ID NO: 19
279 <211> LENGTH: 414

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001

TIME: 15:15:34

Input Set : A:\SYN-034DV.ST25.txt

Output Set: N:\CRF3\12192001\J006252.raw

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280 <212> TYPE: DNA
281 <213> ORGANISM: Raphanus sativus
283 <400> SEQUENCE: 19
284 gttttattag tgatcatggc taagtttgcg tccatcatcg cacttctttt tgctgctctt 60
285 gttctttttg ctgcttttga agcaccaaca atggtggaag cacagaagtt gtgcgaaagg 120
286 ccaagtggga catggtcagg agtctgtgga aacaataacg catgcaagaa tcagtgcatt 180
287 aaccttgaga aagcacgaca tggatcttgc aactatgtct tcccagctca caagtgtatc 240
288 tgctactttc cttgttaatt tatcgcaaac tctttggtga atagttttta tgtaattttac 300
289 acaaaataag tcagtgtcac tatccatgag tgattttaag acatgtacca gatatgttat 360
290 gttggttcgg ttatacaaat aaagttttat tcaccaaaaa aaaaaaaaaa aaaa 414
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 51
294 <212> TYPE: PRT
295 <213> ORGANISM: Raphanus sativus
297 <400> SEQUENCE: 20
298 Gln Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
299 1 5 10 15
301 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
302 20 25 30
304 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
305 35 40 45
307 Phe Pro Cys
308 50
311 <210> SEQ ID NO: 21
312 <211> LENGTH: 47
313 <212> TYPE: PRT
314 <213> ORGANISM: Sorghum bicolor
316 <400> SEQUENCE: 21
317 Arg Val Cys Met Lys Gly Ser Ala Gly Phe Lys Gly Leu Cys Met Arg
318 1 5 10 15
320 Asp Gln Asn Cys Ala Gln Val Cys Leu Gln Glu Gly Trp Gly Gly Gly
321 20 25 30
323 Asn Cys Asp Gly Val Met Arg Gln Cys Lys Cys Ile Arg Gln Cys
324 35 40 45
327 <210> SEQ ID NO: 22
328 <211> LENGTH: 51
329 <212> TYPE: PRT
330 <213> ORGANISM: Raphanus sativus
332 <400> SEQUENCE: 22
333 Gln Lys Leu Cys Met Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
334 1 5 10 15
336 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
337 20 25 30
339 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
340 35 40 45
342 Phe Pro Cys
343 50
346 <210> SEQ ID NO: 23
347 <211> LENGTH: 51

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/006,252

DATE: 12/19/2001

TIME: 15:15:35

Input Set : A:\SYN-034DV.ST25.txt

Output Set: N:\CRF3\12192001\J006252.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:822 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:48
L:822 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48
L:822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:899 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:55
L:899 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:55
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77



<210> 48

<211> 27

<212> DNA

<213> Artificial Sequence

→ give
must location of N₁ and what
residue it represents
see error summary sheet
item 9

<220>

<223> Description of Artificial Sequence:primer

<400> 48

ttgtgccaaa gⁿⁿnnagtgg gacatgg

<210> 55
<211> 26
<212> DNA
<213> Artificial Sequence

→ same error

<220>
<223> Description of Artificial Sequence:primer

<400> 55
aactatgtct tⁿⁿngctca caagtg